

NORTHWEST LABORATORIES

of Seattle, Incorporated

Technical Services for: Industry, Commerce, Legal Profession & Insurance Industry

1530 FIRST AVENUE SOUTH

SEATTLE, WASHINGTON 98134

Telephone: (206) 622-0680

Report to: Alaskan Copper Works **Date:** May 13, 1982
Report on: Sludge Analysis/EPA Requirements **Lab. No.** E 25108

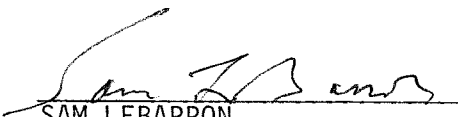
SUBMITTED:

One sample of sludge material resulting from sodium hydroxide neutralization of a nitric acid pickling bath which had been used for cleaning stainless steel.

ANALYSIS:

<u>Test</u>	<u>Result</u>
1. Physical State of 70° F	Liquid solid mixture
2. Density	1.068 grams/cm ³
3. pH	9.9
4. Sulfur	0.4%
5. Organo-Chlorine	None present
6. Waste Composition	
Water	90.3%
Total Solids	9.7%
Iron Compounds	More than 2%
Silicon compounds	More than 2%
Calcium compounds	0.5 - 2%
Chromium compounds	0.5 - 2%
Manganese compounds	0.5 - 2%
Nickel compounds	0.5 - 2%
Copper compounds	0.5 - 2%
7. Reactivity	The sample exhibits <u>no</u> characteristic of reactivity
8. EPA Hazardous Waste Number	K063
Hazard Code	T (toxic waste)

ANALYZED AND NORTHWEST LABORATORIES


SAM LEBARRON

Director of Chemical Laboratory

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Telephone: (206) 622-0680

Report to: Alaskan Copper

Date: July 19, 1982

Report on: Acid Pickling Solution
PO 6195

Lab. No. E 25767

SUBMITTED:

Three samples of Acid Pickling Solution

IDENTIFICATION:

Sample #1	3200	7/14/82
#2	3600	7/14/82
#3	S.P.S.	7/14/82

ANALYSIS

	1	2	3
Specific Gravity	1.165 at 76°F	1.162 at 75°F	1.084 at 78°F
Specific Gravity, 90°F	1.162	1.159	1.081
Acid (as Nitric Acid) %	16.32	18.53	11.98

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Clyde J. Ambacher
CLYDE J. AMBACHER

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Telephone: (206) 622-0680

Report to: Alaskan Copper

Date: July 28, 1982

Report on: Acid Pickling Solution

Lab. No. E 25874

SUBMITTED:

Two samples of acid pickling solution

IDENTIFICATION:

Sample #1 - HNO_3 Full Tank June 25, 1982

Sample #2 - HNO_3 Refill with H_2O July 20, 1982

ANALYSIS:

	<u>1</u>	<u>2</u>
Acid (as Nitric Acid), %	15.69	14.77

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